



Specification for the Removal of the Building from Containment

**Abatement and Selective Demolition
130 Cedar Street
New York, NY 10006**

**March 20, 2007
Revised per EPA Comments**

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1.0 Introduction

The building located at 130 Cedar Street, New York, NY 10006 (“the Building”) will be considered ready for selective demolition phase of the project, when the Building is visually clean of all dust, all interior surfaces have been encapsulated with a colored encapsulant, and interior air clearance testing indicates that concentrations of the analytes listed below have been reduced to the levels specified. All visual clearance and air testing will be conducted by the Environmental Consultant. Where necessary, a “White Glove Test” will be performed to determine visual clearance. In the event that release from containment criteria is not met, all costs associated with re-testing and re-cleaning shall be borne by the Contractor.

2.0 Clearance Sampling

Acceptance Air Criteria: The Building can be removed from containment and the abatement phase will be completed when area air measurements, performed using aggressive air sampling procedures which re-suspend residual settled dusts, are at or below each of the following airborne concentrations in every sample, respectively, for the metals noted below and for asbestos. Air testing for asbestos shall be in accordance with applicable regulations and applicable permits and variances for this project. If any sample is above any of these levels, the abatement phase will be considered incomplete and the affected areas shall be re-cleaned. Clearance levels for metal analytes were selected at 50% of the applicable American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLV). Results of aggressive air testing below these clearance levels will provide adequate protection for workers without respiratory protection and should minimize any off-site emissions from interior dust-associated contaminants.

Table 1. Clearance Levels for Metals

Metal	Clearance Level ($\mu\text{g}/\text{m}^3$)	Basis (TLV)
Antimony	250	Antimony & compounds
Barium	250	Barium & soluble compounds
Beryllium	1.0	Beryllium & compounds
Cadmium	5	Cadmium & compounds – Inhalable fraction
Chromium (III)	250	Chromium (III) inorganic compounds
Copper	500	Copper dusts and mist
Lead	25	Lead and inorganic compounds
Manganese	100	Manganese and inorganic compounds
Mercury	12.5	Mercury, elemental
Nickel	50	Nickel, soluble compounds – Inhalable fraction
Zinc	1,000	Zinc oxide – Respirable fraction

2.1 Metals – Air Samples

Sample collection will be performed in accordance with NIOSH 7300, “Elements by ICP”. Sampling will be conducted for a minimum of two hours utilizing a flow rate minimum of four liters/minute. The air sampling volume will be a minimum of 500 liters.

Mercury monitoring utilizing a Lumex direct read instrument along with a data logging laptop will be utilized, along with inductively coupled plasma/mass spectrometry (ICP-MS) to obtain mercury levels. The Lumex must be utilized to obtain sensitivity levels below the clearance criteria established.

The number of samples per containment area as determined by the Environmental Consultant) will be a minimum of five (5) and not less than five (5) samples per floor. The elevator shaft and stairwells will have to be cleared and sampled separately from floor clearance activities with the exception of the passenger elevator shaft and back stairwell which will be included in the containment area clearance.

2.2 Asbestos – Air Samples

Asbestos air sample collection will be performed in accordance with AHERA 40 CFR Part 763, “Asbestos” and in accordance with applicable regulations and permits and variances for this Project. Acceptance Criteria: Every sample indicates an airborne concentration of asbestos fibers of 70 structures per mm^2 or less. If any sample is above this level, then the abatement phase will be considered incomplete and the affected areas shall be recleaned. The number of samples per containment area as determined by the Environmental Consultant will be a minimum of five (5) and not less than five (5) samples per floor. The elevator shaft and stairwells will have to be cleared and sampled separately from floor clearance activities with the exception of the passenger elevator shaft and back stairwell which will be included in the containment area clearance.